

# SKRIPSI

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**UJI AKTIVITAS SITOTOKSIK EKSTRAK METANOL HERBA  
*Ageratum conyzoides* L. PADA KULTUR SEL MIELOMA  
MENCIT DENGAN METODE VIABILITAS SEL**



**FAKULTAS FARMASI UNIVERSITAS AIRLANGGA  
SURABAYA  
2001**

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**Dibuat untuk memenuhi syarat mencapai gelar  
Sarjana Sains pada Fakultas Farmasi  
Universitas Airlangga  
2001**

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## ABSTRACT

Now a day, cancer is became one of the deathly diseases because most of the patients conclude with died. The cures for cancer can be done by operation, chemotherapy and radiotherapy. A lot patient, however, try to use traditional therapy, especially from plants. The one way is using *Ageratum conyzoides* L., has local name bandotan, which is efficacious empirical.

The aim of this research is to know anticancer activity from *Ageratum conyzoides* L., the one way is using cytotoxicity assay to mouse myeloma cell culture.

Cytotoxic activity assay was determined by cell viability method using trypan blue exclusion to differentiate between viable cell and nonviable cell. Herb of plant was extracted by methanol and than was concentrated. The thick extract with various concentration (15,62 µg/ml; 31,25 µg/ml; 125 µg/ml; 500 µg/ml and 1000 µg/ml) was admixed with mouse myeloma cell culture (cell lines NSO/1). Also, was done with various concentration of methanol solvent control material (0,031%; 0,062%; 0,25%; 1% and 2%) in conformity with the concentration on test material.

Viability percentage from experiment was analysed by SPSS Windows 10.0 program using ANAVA One Way and continued with LSD analysis. The analysis result of the test material showed that F count (6,464) was bigger than F table (2,85) with  $\alpha = 0,05$ . Whereas, the analysis result of methanol solvent control material showed that F count (1,017) was smaller than F table (4,39).

Also, was done Probit analysis by SPSS Windows 10.0 program to know  $LC_{50}$  value and findable at concentration 3692,46  $\mu\text{g/ml}$ .

The conclusion of the analysis result is that methanol extract of *Ageratum conyzoides* L. herb doesn't have cytotoxic activity for mouse myeloma cell culture (cell lines NSO/1). The analysis result of methanol solvent control material was found that methanol doesn't influence the dead of mouse myeloma cell.

